

Amendments to the Specification:

Please replace the paragraph appearing in the section entitled ABSTRACT with following amended paragraph:

A trusted sensor for authenticating biometric information used in an encryption system is disposed on at least one integrated circuit and comprises a microprocessor, and a data memory coupled to the microprocessor. The data memory is configured to hold a plurality of templates representing enrolled biometric information, a biometric public key and private key pair corresponding to each of the plurality of templates, and a manufacturer public key and private key pair. The trusted sensor further comprises a functions section, also coupled to the microprocessor. The functions section includes a cryptographic library module and a feature extraction and template matching module. The cryptographic library module stores one or more public key private key encryption functions and further stores instructions for causing said microprocessor to populate said biometric public key and private key pair corresponding to each of said plurality of templates. The feature extraction and template matching module stores instructions for extracting features created with a biometric image capture device coupled to the trusted sensor, and for populating at least one of the plurality of templates.

Please add the following new section heading and paragraph after the TITLE (HIGH SECURITY BIOMETRIC AUTHENTICATION USING A PUBLIC KEY/PRIVATE KEY ENCRYPTION PAIRS) and before the section entitled BACKGROUND.

CROSS REFERENCE TO RELATED APPLICATIONS

This application claims the benefit of priority under 35 U.S.C. Sec. 119 to U.S. Provisional Application Serial No. 60/130,721, filed April 22, 1999, and PCT Patent Application Serial No. PCT/US00/10415, filed April 18, 2000, and under 35 U.S.C. Sec. 120 to U.S. Patent Application No. 09/306,148, filed May 6, 1999, all of which are fully incorporated herein by reference.